

**ADVERTISEMENT FOR BID**

**SEALED PROPOSALS AS LISTED BELOW WILL BE RECEIVED BY THE**

**PURCHASING DEPARTMENT  
LSU HEALTH SCIENCES CENTER  
433 BOLIVER ST., SIXTH FLOOR, ROOM 623  
NEW ORLEANS, LA. 70112**

**UNTIL TIMES AND DATES INDICATED, AT WHICH TIME AND PLACE THE  
PROPOSALS WILL BE PUBLICLY OPENED AND READ:**


**BID TITLE : DENTAL BIOMATERIAL EQUIPMENT**

**BID NUMBER : 000689**

**BID DUE DATE : SEPTEMBER 14, 2005 @ 11:00 AM**

**ALL INQUIRIES AND REQUESTS FOR SPECIFICATIONS SHOULD BE  
ADDRESSED VIA EMAIL TO : dholme2@lsuhsc.edu**

**SPECIFICATIONS MAY BE OBTAINED FROM THE PURCHASING  
DEPARTMENT. THE RIGHT IS RESERVED TO REJECT ANY AND ALL BIDS  
AND TO WAIVE INFORMALITIES. LSUHSC IS AN EQUAL OPPORTUNITY  
EMPLOYER.**

<b>LSUHSC New Orleans</b>			BIDS WILL BE PUBLICLY OPENED:	
<b>VENDOR NO. :</b> <b>SOLICITATION : 000689</b> <b>OPENING DATE : 09/14/2005</b>			<b>September 14, 2005 11:00 AM</b>	
<div style="border: 1px solid black; width: 200px; height: 60px; margin: 10px auto;"></div>		<b>Return Bid in Envelope/Labels Provided to:</b> Holmes, Deborah Purchasing Department 433 Bolivar St Room 623 New Orleans LA 70112 <b>BUYER : Holmes, Deborah</b> <b>BUYER PHONE : 504-819-8590</b> <b>DATE ISSUED : 08/12/2006</b> <b>REQ. NO : 0013724</b> <b>FISCAL YEAR : 2006</b>		
REQ. #0013724				
<b>INSTRUCTIONS TO BIDDERS</b>				
<ol style="list-style-type: none"> <li>1. READ THE ENTIRE BID, INCLUDING ALL TERMS AND CONDITIONS AND SPECIFICATIONS.</li> <li>2. FILL IN ALL BLANK SPACES.</li> <li>3. ALL BID PRICES MUST BE TYPED OR WRITTEN IN INK. ANY CORRECTIONS, ERASURES OR OTHER FORMS OF ALTERATION TO UNIT PRICES SHOULD BE INITIALIZED BY THE BIDDER.</li> <li>4. BID PRICES SHALL INCLUDE DELIVERY OF ALL ITEMS F.O.B. DESTINATION OR AS OTHERWISE PROVIDED. BIDS CONTAINING "PAYMENT IN ADVANCE" OR "C.O.D." REQUIREMENTS MAY BE REJECTED. PAYMENT IS TO BE MADE WITHIN 30 DAYS AFTER RECEIPT OF PROPERLY EXECUTED INVOICE OR DELIVERY, WHICHEVER IS LATER.</li> <li>5. SPECIFY YOUR PAYMENT TERMS: _____ . CASH DISCOUNTS FOR LESS THAN 30 DAYS OR LESS THAN 1% WILL BE ACCEPTED, BUT WILL NOT BE CONSIDERED IN DETERMINING AWARDS.</li> </ol>				
BY SIGNING THIS BID, THE BIDDER CERTIFIES:				
<ul style="list-style-type: none"> <li>* THAT NEITHER THIS BUSINESS ENTITY NOR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS IS CURRENTLY LISTED AS EXCLUDED OR SANCTIONED BY EITHER THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, OFFICE OF INSPECTOR GENERAL (OIG) OR THE GENERAL SERVICES ADMINISTRATION (GSA).</li> <li>* THAT IF THIS BUSINESS ENTITY OR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS APPEAR ON EITHER LISTING, MY BID WILL BE REJECTED.</li> <li>* THAT IF AT ANY TIME DURING THE TERM OF THE CONTRACT AWARDED AS A RESULT OF THIS INVITATION TO BID, THIS ENTITY OR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS APPEARS ON EITHER LISTING, MY COMPANY WILL NOTIFY THE CONTRACTING AGENCY, AND THE CONTRACT WILL BE TERMINATED. THE CONTRACTING AGENCY WILL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM SAID TERMINATION.</li> </ul>				
THE BIDDER FURTHER CERTIFIES:				
<ul style="list-style-type: none"> <li>* COMPLIANCE WITH ALL INSTRUCTIONS TO BIDDERS, TERMS, CONDITIONS, AND SPECIFICATIONS.</li> <li>* THIS BID IS MADE WITHOUT COLLUSION OR FRAUD.</li> <li>* THAT ALL TAXES DULY ASSESSED BY THE STATE OF LOUISIANA AND IT'S SUBDIVISIONS, INCLUDING FRANCHISE TAXES, PRIVILEGE TAXES, SALES TAXES AND ALL OTHER TAXES FOR WHICH THE FIRM IS LIABLE HAVE BEEN PAID.</li> <li>* THAT IF MY BID IS ACCEPTED WITHIN _____ DAYS FROM BID CLOSING TIME, MY FIRM WILL FURNISH ANY OR ALL OF THE ITEMS (OR SECTIONS) AT THE PRICE OPPOSITE EACH ITEM (OR SECTION).</li> <li>* DELIVERY WILL BE MADE WITHIN _____ DAYS AFTER RECEIPT OF ORDER.</li> </ul>				
VENDOR PHONE NUMBER:		TITLE		DATE
FAX NUMBER:				
SIGNATURE OF AUTHORIZED BIDDER (MUST BE SIGNED)		NAME OF BIDDER (TYPED OR PRINTED)		

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<p>6. DESIRED DELIVERY: 10 DAYS ARO, UNLESS SPECIFIED ELSEWHERE</p> <p>7. TO ASSURE CONSIDERATION, ALL BIDS SHOULD BE SUBMITTED IN THE SPECIAL ENVELOPE, OR THE BID LABEL IF FURNISHED FOR THAT PURPOSE. IN THE EVENT YOUR BID CONTAINS BULKY SUBJECT MATERIAL, THE SPECIAL BID ENVELOPE SHOULD BE FIRMLY AFFIXED TO THE MAILING ENVELOPE.</p> <p>8. BIDS SUBMITTED ARE SUBJECT TO PROVISIONS OF THE LAWS OF THE STATE OF LOUISIANA INCLUDING BUT NOT LIMITED TO L.R.S. 39:1551-1736; PURCHASING RULES AND REGULATIONS; EXECUTIVE ORDERS; STANDARD TERMS AND CONDITIONS; SPECIAL CONDITIONS; AND SPECIFICATIONS LISTED IN THIS SOLICITATION.</p> <p>9. IMPORTANT: THIS BID IS TO BE MANUALLY SIGNED IN INK BY A PERSON AUTHORIZED TO BIND THE VENDOR (SEE NO.31).</p> <p>10. INQUIRIES: ADDRESS ALL INQUIRIES AND CORRESPONDENCE TO THE BUYER AT THE PHONE NUMBER AND ADDRESS SHOWN ABOVE.</p> <p>11. BID FORMS: ALL WRITTEN BIDS, UNLESS OTHERWISE PROVIDED FOR, SHOULD BE SUBMITTED ON AND IN ACCORDANCE WITH FORMS PROVIDED, PROPERLY SIGNED (SEE #31). BIDS MUST BE RECEIVED AT THE ADDRESS SPECIFIED IN THE SOLICITATION PRIOR TO BID OPENING TIME IN ORDER TO BE CONSIDERED.</p> <p>12. STANDARDS OR QUALITY. ANY PRODUCT OR SERVICE BID SHALL CONFORM TO ALL APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS AND THE SPECIFICATIONS CONTAINED IN THE SOLICITATION. UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION, ANY MANUFACTURER'S NAME, TRADE NAME, BRAND NAME, OR CATALOG NUMBER USED IN THE SPECIFICATION IS FOR THE PURPOSE OF DESCRIBING THE STANDARD OF QUALITY, PERFORMANCE, AND CHARACTERISTICS DESIRED AND IS NOT INTENDED TO LIMIT OR RESTRICT COMPETITION. BIDDER MUST SPECIFY THE BRAND AND MODEL NUMBER OF THE PRODUCT OFFERED IN HIS/HER BID. BIDS NOT SPECIFYING BRAND AND MODEL NUMBER SHALL BE CONSIDERED AS OFFERING THE EXACT PRODUCTS SPECIFIED IN THE SOLICITATION.</p> <p>13. DESCRIPTIVE INFORMATION. BIDDERS PROPOSING AN EQUIVALENT BRAND OR MODEL SHOULD SUBMIT WITH THE BID, INFORMATION (SUCH AS ILLUSTRATIONS, DESCRIPTIVE LITERATURE, TECHNICAL DATA) SUFFICIENT FOR LSUHSC TO EVALUATE QUALITY, SUITABILITY, AND COMPLIANCE WITH THE SPECIFICATIONS IN THE SOLICITATION. FAILURE TO SUBMIT DESCRIPTIVE INFORMATION MAY CAUSE BID TO BE REJECTED. ANY CHANGE MADE TO A MANUFACTURER'S PUBLISHED SPECIFICATION SUBMITTED FOR A PRODUCT SHALL BE VERIFIABLE BY THE MANUFACTURER. IF ITEM(S) BID DO NOT FULLY COMPLY WITH SPECIFICATIONS (INCLUDING BRAND AND/OR PRODUCT NUMBER), BIDDER MUST STATE IN WHAT RESPECT ITEM(S) DEVIATE. FAILURE TO NOTE EXCEPTIONS ON THE BID FORM WILL NOT RELIEVE THE SUCCESSFUL BIDDER(S) FROM SUPPLYING THE ACTUAL PRODUCTS REQUESTED.</p> <p>14. BID OPENING. BIDDERS MAY ATTEND THE BID OPENING, BUT NO INFORMATION OR OPINIONS CONCERNING THE ULTIMATE CONTRACT AWARD WILL BE GIVEN AT THE BID OPENING OR DURING THE EVALUATION PROCESS. BIDS MAY BE EXAMINED WITHIN 72 HOURS AFTER BID OPENING. INFORMATION PERTAINING TO COMPLETED FILES MAY BE SECURED BY VISITING LSUHSC DURING NORMAL WORKING HOURS. WRITTEN BID TABULATIONS WILL NOT BE FURNISHED.</p> <p>15. AWARDS. AWARD WILL BE MADE TO THE LOWEST RESPONSIBLE AND RESPONSIVE BIDDER. LSUHSC RESERVES THE RIGHT TO AWARD ITEMS SEPARATELY, GROUP, OR IN TOTAL, AND TO REJECT ANY OR ALL BIDS AND WAIVE ANY INFORMALITIES.</p> <p>16. PRICES. UNLESS OTHERWISE SPECIFIED BY LSUHSC IN THE SOLICITATION, BID PRICES MUST BE COMPLETE, INCLUDING TRANSPORTATION PREPAID BY BIDDER TO DESTINATION AND FIRM FOR ACCEPTANCE</p>			

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<p>FOR A MINIMUM OF 30 DAYS. IF ACCEPTED, PRICES MUST BE FIRM FOR THE CONTRACTUAL PERIOD. BIDS OTHER THAN F.O.B. DESTINATION MAY BE REJECTED. PRICES SHOULD BE QUOTED IN THE UNIT (EACH, BOX, CASE, ETC.) AS SPECIFIED IN THE SOLICITATION.</p> <p>17.DELIVERIES. BIDS MAY BE REJECTED IF THE DELIVERY TIME INDICATED IS LONGER THAN THAT SPECIFIED IN THE SOLICITATION.</p> <p>18.TAXES. VENDOR IS RESPONSIBLE FOR INCLUDING ALL APPLICABLE TAXES IN THE BID PRICE. LSUHSC AGENCIES ARE EXEMPT FROM ALL STATE AND LOCAL SALES AND USE TAXES.</p> <p>19.NEW PRODUCTS. UNLESS SPECIFICALLY CALLED FOR IN THE SOLICITATION, ALL PRODUCTS FOR PURCHASE MUST BE NEW, NEVER PREVIOUSLY USED, AND THE CURRENT MODEL AND/OR PACKAGING. NO REMANUFACTURED, DEMONSTRATOR, USED OR IRREGULAR PRODUCT WILL BE CONSIDERED FOR PURCHASE UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION. THE MANUFACTURER'S STANDARD WARRANTY WILL APPLY UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION.</p> <p>20.CONTRACT CANCELLATION. THE STATE OF LOUISIANA HAS THE RIGHT TO CANCEL ANY CONTRACT, IN ACCORDANCE WITH PURCHASING RULES AND REGULATIONS, FOR CAUSE INCLUDING BUT NOT LIMITED TO THE FOLLOWING: (1) FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE CONTRACT; (2) FAILURE OF THE PRODUCT OR SERVICE TO MEET SPECIFICATIONS, CONFORM TO SAMPLE QUALITY OR TO BE DELIVERED IN GOOD CONDITION; (3) MISREPRESENTATION BY THE CONTRACTOR; (4) FRAUD, COLLUSION OR CONSPIRACY OR OTHER UNLAWFUL MEANS OF OBTAINING ANY CONTRACT WITH THE STATE; (5) CONFLICT OF CONTRACT PROVISIONS WITH CONSTITUTIONAL OR STATUTORY PROVISIONS OF STATE OR FEDERAL LAW; (6) ANY OTHER BREACH OF CONTRACT.</p> <p>21.DEFAULT OF CONTRACT. FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE BID WILL CONSTITUTE A DEFAULT AND MAY CAUSE CANCELLATION OF THE CONTRACT. WHERE THE UNIVERSITY HAS DETERMINED THE CONTRACTOR TO BE IN DEFAULT, THE UNIVERSITY RESERVES THE RIGHT TO PURCHASE AN OR ALL PRODUCTS OR SERVICES COVERED BY THE CONTRACT ON THE OPEN MARKET AND TO CHARGE THE CONTRACTOR WITH COST IN EXCESS OF THE CONTRACT PRICE. UNTIL SUCH ASSESSED CHARGES HAVE BEEN PAID, NO SUBSEQUENT BID FROM THE DEFAULTING CONTRACTOR WILL BE CONSIDERED.</p> <p>22.ORDER OF PRIORITY. IN THE EVENT THERE IS A CONFLICT BETWEEN THE INSTRUCTIONS TO BIDDERS OR STANDARD CONDITIONS AND THE SPECIAL CONDITIONS, THE SPECIAL CONDITIONS SHALL GOVERN.</p> <p>23.APPLICABLE LAW. ALL CONTRACTS SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF LOUISIANA.</p> <p>24.EQUAL OPPORTUNITY. BY SUBMITTING AND SIGNING THIS BID, BIDDER AGREES THAT HE/SHE WILL NOT DISCRIMINATE IN THE RENDERING OF SERVICES TO AND/OR EMPLOYMENT OF INDIVIDUALS BECAUSE OF RACE, COLOR, RELIGION, SEX, AGE, NATIONAL ORIGIN, HANDICAP, DISABILITY, VETERAN STATUS, OR A OTHER NON-MERIT FACTOR.</p> <p>25.SPECIAL ACCOMMODATIONS. ANY "QUALIFIED INDIVIDUAL WITH DISABILITY" AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT WHO HAS SUBMITTED A BID AND DESIRES TO ATTEND THE BID OPENING, MUST NOTIFY THIS OFFICE IN WRITING NOT LATER THAN SEVEN DAYS PRIOR TO THE BID OPENING DATE OF THEIR NEED FOR SPECIAL ACCOMMODATIONS. IF THE REQUEST CANNOT BE REASONABLY PROVIDED, THE INDIVIDUAL WILL BE INFORMED PRIOR TO THE BID OPENING.</p> <p>26.IDEMNITY. CONTRACTOR AGREES, UPON RECEIPT OF WRITTEN NOTICE OF A CLAIM OR ACTION, TO DEFEND</p>		

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THE CLAIM OR ACTION, OR TAKE OTHER APPROPRIATE MEASURE, TO IDEMNIFY, AND HOLD HARMLESS, LSUHSC, ITS OFFICERS, ITS AGENTS AND ITS EMPLOYEES FROM AND AGAINST ALL CLAIMS AND ACTIONS FOR BODILY INJURY, DEATH OR PROPERTY DAMAGES CAUSED BY THE FAULT OF THE CONTRACTOR, OFFICERS, ITS AGENTS, OR ITS EMPLOYEES. CONTRACTOR IS OBLIGATED TO INDEMNIFY ONLY TO THE EXTENT OF THE FAULT OF THE CONTRACTOR, ITS OFFICERS, ITS AGENTS, OR ITS EMPLOYEES. HOWEVER, THE CONTRACTOR SHALL HAVE NO OBLIGATION AS SET FORTH ABOVE WITH RESPECT TO ANY CLAIM OR ACTION FROM BODILY INJURY, DEATH OR PROPERTY DAMAGES ARISING OUT OF THE FAULT OF THE UNIVERSITY, ITS OFFICERS, ITS AGENTS OR ITS EMPLOYEES.

27. INTERPRETATION OF DOCUMENT: ANY INTERPRETATION OF THE BID OR QUOTATION DOCUMENT WILL ONLY BE MADE BY AN ADDENDUM ISSUED IN WRITING BY THE PURCHASING DEPARTMENT. SUCH ADDENDUM WILL BE MAILED OR DELIVERED TO EACH PERSON RECEIVING A SET OF THE ORIGINAL BID OR QUOTATION DOCUMENTS. LSUHSC WILL NOT BE RESPONSIBLE FOR ANY OTHER EXPLANATION OR INTERPRETATION OF THE DOCUMENTS.

28. ACCEPTANCE OF BID: ONLY THE ISSUANCE OF A PURCHASE ORDER OR A SIGNED CONTRACT CONSTITUTES ACCEPTANCE ON THE PART OF LSUHSC.

29. ADHERENCE TO JCAHO STANDARDS: WHERE APPLICABLE, LSUHSC IS ACCREDITED BY THE JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS AND AS SUCH ALL CONTRACTORS, SUBCONTRACTORS, AND VENDORS AGREE TO ADHERE TO THE APPLICABLE STANDARDS PROMULGATED BY THE COMMISSION.

30. PREFERENCE: IN ACCORDANCE WITH LOUISIANA REVISED STATUTES 39:1595, A PREFERENCE MAY BE ALLOWED FOR PRODUCTS MANUFACTURED, PRODUCED, GROWN, OR ASSEMBLED IN LOUISIANA OF EQUAL QUALITY. DO YOU CLAIM THIS PREFERENCE? YES \_\_\_\_\_ NO \_\_\_\_\_  
 SPECIFY THE LINE NUMBER (S) \_\_\_\_\_  
 SPECIFY LOCATION WITHIN LOUISIANA WHERE THIS PRODUCT IS MANUFACTURED, PRODUCED, GROWN OR ASSEMBLED \_\_\_\_\_  
 (NOTE: IF MORE SPACE IS REQUIRED, INCLUDE ON SEPARATE SHEET.)  
 DO YOU HAVE A LOUISIANA BUSINESS WORK FORCE? YES \_\_\_\_\_ NO \_\_\_\_\_  
 IF SO, DO YOU CERTIFY THAT AT LEAST FIFTY PERCENT (50%) OF YOUR LOUISIANA WORKFORCE IS COMPRISED OF LOUISIANA RESIDENTS?  
 YES \_\_\_\_\_ NO \_\_\_\_\_

FAILURE TO SPECIFY ABOVE INFORMATION MAY CAUSE ELIMINATION FROM PREFERENCES.  
 PREFERENCES SHALL NOT APPLY TO SERVICE CONTRACTS.

31. SIGNATURE AUTHORITY. IN ACCORDANCE WITH L.R.S. 39:1594 (ACT 121), THE PERSON SIGNING THE BID MUST BE:

31.1. A CURRENT CORPORATE OFFICER, PARTNERSHIP MEMBER OR OTHER INDIVIDUAL SPECIFICALLY AUTHORIZED TO SUBMIT A BID AS REFLECTED IN THE APPROPRIATE RECORDS ON FILE WITH THE SECRETARY OF STATE; OR

31.2. AN INDIVIDUAL AUTHORIZED TO BIND THE VENDOR AS REFLECTED BY AN ACCOMPANYING CORPORATE RESOLUTION, CERTIFICATE OR AFFIDAVIT; OR

31.3. AN INDIVIDUAL LISTED ON THE STATE OF LOUISIANA BIDDER'S APPLICATION AS AUTHORIZED TO EXECUTE BIDS. BY SIGNING THE BID, THE BIDDER CERTIFIES COMPLIANCE WITH THE ABOVE.

INSTRUCTION TO BIDDERS

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<b>NUMBER : 000689</b> <b>OPEN DATE : 09/14/2005</b>		<b>BIDDER:</b> <b>TIME: 11:00 AM</b>
<b>BID SPECIFICATIONS:</b> <b>Advanced Rheometric Expansion System</b>  <p>A bid is solicited for an advanced rheometric expansion system (rheometer) that meets the following minimum specifications. A demo unit is also accepted, provided that it has been used for less than 24 months, meets the specifications, and has full one-year warranty.</p> <ol style="list-style-type: none"> <li>1. <b>Test Station/Instrument Platform - General Design Requirements:</b> <ol style="list-style-type: none"> <li>A. <b>Primary Requirements:</b> <ol style="list-style-type: none"> <li>1. Rheometer design must utilize separate, isolated DC servo actuator (motor) and autoranging Force-Rebalance Transducer. Sample must be positioned between these isolated components for pure inertial-free analysis. Single-head or Combined Motor-Transducer rheometer designs, that place the sample to one side of the motor-transducer assembly are not acceptable.</li> <li>2. The instrument must have a LCD/LED display integral to the instrument (i.e. at the test station) that provides a constant readout of torque, axial force, temperature, and gap to assist in sample loading and operator safety.</li> <li>3. The instrument must have 'emergency off' switches or 'kill buttons' for both the over and the entire instrument system on the test frame to enable immediate termination of instrument operation.</li> <li>4. Test station must be a single-unit design with steel frame. All electronics, controllers, power supplies and mechanical components must be housed within this uni-frame.</li> </ol> </li> <li>2. <b>Instrument Component Requirements:</b> <ol style="list-style-type: none"> <li>A. <b>Actuator:</b> The servo-actuator must be a direct drive, air-bearing DC servo-motor that commands both angular strain/displacement and shear rates directly. Rheometer may not use closed feedback loop to a stress control motor (Drag-Cup Motor) or brushless ECM-style motor.</li> <li>1. <b>Strain Control:</b> The instrument must utilize a direct drive servo-controlled actuator to generate dynamic strain amplitudes to 0.005 mrad, regardless of sample type and/or frequency. The vendor may be required to prove that the instrument can produce a perfect sinusoidal waveform at this strain level.</li> <li>2. <b>Stress-relaxation:</b> The servo-actuator must be capable of performing a true step-strain (stress relaxation) experiment, without the use of a feedback control loop or a user-input modulus/viscosity target. The servo-actuator must be capable of providing less than 10 msec rise time to 99% of a 10 mrad step displacement. The vendor may be required to prove that the instrument can perform to these specifications regardless of sample.</li> </ol> </li> <li>B. <b>Force-Rebalance Transducer (FRT):</b> The torque measurement transducer must utilize patented Force-Rebalance Transducer technology for measurement of both torque and normal forces.               <ol style="list-style-type: none"> <li>1. <b>Torque Range:</b> The transducer must be able to measure torque from 0.02 to 2,000 g-cm (2e-3 to 200 mNm), with a minimum resolution of at least 1e-4 g-cm. Torque linearity must be better than</li> </ol> </li> </ol> </li> </ol>		

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<p>0.1 %, with a hysteresis of less than 0.05% of full scale. Transducer is maintained at room temperature and thermal drift effects must be less than 0.002 /degC around room temp.</p> <p>2. Dynamic Range: The instrument must be capable of making accurate measurements to 2,000 g-cm over the full range of frequencies across the entire torque range, regardless of the sample type (e.g. must be capable of performing this test on low viscosity as well as high viscosity samples).</p> <p>3. Frequency Range: The actuator must be capable of generating a range of frequencies between 1e-5 to 500 rad/sec in no less than 53,248 discreet steps with a resolution to within 0.098% of commanded frequency, regardless of the sample type (e.g. must be capable of performing this test on low viscosity as well as high viscosity samples).</p> <p>4. Axial/Normal Force Measurement System: The torque/normal transducer must have the ability to measure axial force in a linear and highly accurate manner. This mechanism must be rated to 2,000 gf (20 N) with a minimum resolution of at least 0.1 gf. The system should employ a force-rebalance measurement transducer. Compliant member transducers (LVDT or strain gauge) or air-bearing mounted pressure transducers are not acceptable.</p> <p>3. Control Electronics: Controller boards must be located in main instrument chassis, must be easily accessible to customer and must incorporate easily-viewed diagnostic LEDs for immediate trouble-shooting of board level failures. Vendor warranty and service terms must allow for customer to access these boards and replace without vendor service representative being present if customer so desires.</p> <p>4. Control Firmware: Components of control electronics that directly control instrument component functions via board-based instruction (firmware) must be designed for in-situ re-programmability. These firmware components must accept new firmware versions or upgrades via the standard instrument control software, without the need for changing or replacing board or board-level components. Firmware upgrade must be accessible via the internet at no cost to the customer.</p> <p>5. AutoZero , AutoGap and ThermoGap: The instrument must be equipped with AutoZero and AutoGap functions. The AutoZero feature must use the actual measured axial force to sense zero gap. The AutoGap feature must allow descent-rate programming as well as time and gap. A linear encoder should be used to measure gap independently of the gap control mechanism (e.g. stepper motor). The tools should close logarithmically to preserve sample structure, and must be able to load a sample both as a function of time and rate as well as at a constant axial force. Software/hardware should also enable the active control of the gap (ThermoGap) during testing in order to compensate in real-time for the effects of thermal expansion/contraction of the tool.</p> <p>6. Temperature Control / Oven System: The environmental system must be a true forced air convection oven utilizing two heater guns with counter-rotating air flow for optimal temperature stability. The temperature range of the oven must be between ambient and 600°C</p> <p>1. Oven temperature control must be extendible to -150°C using liquid nitrogen OR</p>			

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<p>2. Oven temperature control must be extendible to -60C employing a mechanical air-chiller device. These options must be modular, and available for addition to the instrument in the field.</p> <p>3. Oven must provide for controlled heating/cooling at rates of up to 60 °C/min, and ramp to isothermal capability of up to 100 °C/min.</p> <p>4. The oven must feature sight-glass ports at 3 o'clock and 6 o'clock to the sample to enable visual inspection of the sample to ensure proper loading and alignment, to photograph the sample under test conditions, or to expose the sample to irradiation from various light sources.</p> <p>5. Oven/Tool design must accommodate control of oven temperature via either PRT/thermocouples at the oven wall or by tool PRT. Tool PRT must be positioned directly behind the lower plate, in intimate contact with the lower plate, and must be user removable/replaceable.</p> <p>7. Advanced Analysis Modules (Standard): In addition to the standard rheological testing platform, the rheometer must provide as standard feature the following:</p> <ul style="list-style-type: none"> <li>• Fast-Data Sampling: Integral data correlator package that enables user-selectable sampling rates of up to 100 points/second, independent of testing frequency.</li> <li>• Real-time waveform display: Integral software oscilloscope function that displays true, real-time display of commanded and resultant waveforms during dynamic testing.</li> <li>• Multi-Wave: MultiWave Single Point allows application of a strain waveform that is the sum of the Fourier series described by the following strains: (a) A sinusoidal strain at a fundamental frequency, and (b) Up to eight sinusoidal strains, each at a harmonic frequency of the fundamental. Strain amplitude and frequency of both the fundamental and each harmonic are user-selectable. MultiWave useful for analysis of materials that experience rapid structural changes resulting from the material's thermal and/or structural characteristics.</li> <li>• Arbitrary Waveform: Arbitrary Waveshape applies a user-defined periodic deformation (strain waveform) in each of up to four zones. This feature enables the application of non-sinusoidal deformation to the sample material (e.g. square waves, triangular or saw-tooth waves, etc.) as well as strain impulses from which viscoelastic response can be derived via FFT at a fraction of the time required using either standard or Multi-Wave sinusoidal techniques.</li> </ul> <p>8. Advanced Analysis Modules (Modular): In addition to the standard rheological testing platform, the rheometer must provide as an optional, modular feature the following be capable of accepting the following modules to provide enhanced materials characterization functions:</p> <ul style="list-style-type: none"> <li>• DETA - Dielectric Thermal Analysis Module: Allows for the simultaneous analysis of rheological and dielectric properties of material systems. The DETA module can also be used as a stand-alone dielectric analyzer. Software controlling this module must be completely integral to the standard rheometer software (see below). Dielectric analysis can be of extreme value in the analysis of thermoset resin systems, and also for determining the dielectric and EMF-shielding properties of thermoplastic resins. Frequency range up to 1 MHz is required, and may be used for high-frequency glass transition and damping capacity analyses.</li> <li>• ERMA - Electro-Rheology Module: Allows for the analysis of material response to high voltage. Is particularly useful in analyzing materials whose properties are known to be, or designed to be</li> </ul>			



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<p>affected by the presence of voltage.</p> <ul style="list-style-type: none"> <li>Optical Analysis Module (OAM): Allows for the simultaneous analysis of rheological and optical properties of material systems. Specific measurements include birefringence, dichroism and refractive index. Software controlling this module must be completely integral to the standard rheometer software (see below)</li> <li>UV Analysis Module: Allows for the simultaneous analysis of rheological properties of material systems under the controlled exposure to UV light. System must include tools that enable irradiation through the parallel plate surfaces, a shield enclosure to block extraneous light, and a source which allows controlled intensity. Software controlling this module must be completely integral to the standard rheometer software and must be capable of providing programmed exposure/shutter times (see below)</li> <li>IMMERSION BATH: Allows for the analysis of solid samples while immersed in a fluid of the users choice. The bath design must allow for circulation of temperature controlled fluid directly into the bath/sample zone, and must also include a drain that allows for removal of the immersion fluid without removal of the immersion bath. This feature is particularly useful for a range of applications including solvent effects, hygroscopic effects, material/fluid compatibility studies, and biomimetic testing.</li> </ul> <p>9. Software: The instrument operation and basic analysis software must be a native 32 bit Windows 95/98/2000/NT/XP application. Software must comply with the following:</p> <ul style="list-style-type: none"> <li>The software must be compatible with existing Thermal Advantage software platforms used to operate existing instrumentation.</li> <li>The base software package must also include statistical analysis (including error bar generation), and data (point) editing, FFT and spline smoothing, and data reduction functions. Fluid inertia corrections will be included in the software, as well as Berger's correction.</li> </ul> <p>The instrument control package must seamlessly operate with the optional Advanced Data Analysis packages and not require data format conversions or secondary software modules. Software must be capable of multitasking, and operating multiple instruments from a single work-station. The data analysis package must also be a native 32 bit Windows 95/98/2000/NT/XP application and must perform the following functions:</p> <ul style="list-style-type: none"> <li>- Time-Temperature Superposition, with automatic horizontal and vertical shift. Automatically generates master curves. After fitting with WLF, curves can be generated for any temperature within the range tested.</li> <li>- Automatic determination of Zero Shear Viscosity, Plateau Modulus, Equilibrium Compliance, and Flow Activation Energy.</li> <li>- Data analysis options must include transformations of <math>G'</math>, <math>G''</math>, <math>G(t)</math>, <math>J'</math>, <math>J''</math>, <math>J(t)</math>, with the following curve modeling functions: Polynomial, exponential, sine/cosine, Fourier series, power law, Ellis, Bingham, Busche, Casson, Hershel-Buckley, as well as user defined curve modeling.</li> </ul> <p>CONTACT: XIAOMING XU, PH. D.      504-619-8654      DEPT. OF OPERATIVE DENTISTRY</p>			

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<p>WHEN APPLICABLE, AND IF NECESSARY TO COMPLY WITH THE HIPAA PRIVACY RULE, THE SUCCESSFUL VENDOR WILL BE REQUIRED TO EXECUTE OUR BUSINESS ASSOCIATE ADDENDUM, WHICH MUST BE RETURNED WITHIN TEN (10) DAYS AFTER REQUEST, WHEN REQUESTED. A SAMPLE OF OUR CURRENT BUSINESS ASSOCIATE ADDENDUM CAN BE FOUND ON THE HCSD WEB SITE AT: <a href="http://webdev.lsuhscc.edu/hcscd/hipaa/">HTTP://WEBDEV.LSUHSC.EDU/HCSD/HIPAA/</a>.</p> <p>METHOD OF AWARD: IT IS THE INTENT OF THE LSU HEALTH SCIENCES CENTER TO AWARD THIS CONTRACT ON A ALL-OR-NONE OR GROUPED BASIS AS DEEMED IN THE BEST INTEREST OF THE STATE. OTHERWISE, ITEMS WILL BE AWARDED SEPARATELY. LSUHSC-HCSD FURTHER RESERVES THE RIGHT TO REJECT INDIVIDUAL ITEMS FROM A ALL-OR-NONE OR GROUPED AWARD, TO REJECT ANY OR ALL BIDS, AND TO WAIVE INFORMALITIES.</p> <p>AWARD TO BE MADE TO THE OVERALL LOW BIDDER MEETING THE WRITTEN SPECIFICATIONS. LSUHSC-HCSD RESERVES THE RIGHT TO DELETE LINE ITEM(S) FROM AWARD.</p> <p>AT THE OPTION OF LSUHSC AND ACCEPTANCE BY THE CONTRACTOR, THIS CONTRACT MAY BE EXTENDED FOR ADDITIONAL PERIODS AT THE SAME PRICE, TERMS AND CONDITIONS. CONTRACT NOT TO EXCEED THIRTY-SIX (36) MONTHS.</p> <p>IF BIDDING OTHER THAN SPECIFIED, SUFFICIENT INFORMATION SHOULD BE ENCLOSED WITH THE BID IN ORDER TO DETERMINE QUALITY, SUITABILITY, AND COMPLIANCE WITH THE SPECIFICATIONS.</p> <p>FAILURE TO COMPLY WITH THIS REQUEST MAY ELIMINATE YOUR BID FROM CONSIDERATION.</p> <p>SUBMITTAL OF ANY TERMS AND CONDITIONS CONTRARY TO THOSE OF LSUHSC MAY CAUSE YOUR BID TO BE REJECTED. BY SIGNING BELOW, TERMS AND CONDITIONS WHICH MAY BE INCLUDED IN YOUR BID ARE NULLIFIED, AND CONTRACTOR AGREES THAT THIS CONTRACT SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF LOUISIANA.</p> <p>_____</p> <p>BIDDER MUST SIGN IN INK</p> <p>THE VENDOR UNDERSTANDS AND AGREES THAT THE SPECIFIED USAGE IS A NON-BINDING ESTIMATE AND THAT LSUHSC RESERVES THE RIGHT TO PROCURE IN WHOLE OR IN PART THE SPECIFIED PRODUCTS FROM A GROUP PURCHASING ORGANIZATION UPON LSUHSC DETERMINATION THAT SUCH ALTERNATIVE PROCUREMENT IS IN LSUHSC'S BEST INTEREST.</p> <p>LSUHSC RESERVES THE RIGHT TO CANCEL THIS CONTRACT WITH THIRTY (30) DAYS WRITTEN NOTICE.</p> <p>DOES MACHINE HAVE ANY TYPE OF WARRANTY THAT COVERS MAINTENANCE?</p> <p>_____ YES _____ NO</p> <p>IF YES, FOR HOW MANY MONTHS IS THE WARRANTY?</p>	

ATTENTION TO BIR

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<p>_____ MONTHS.</p> <p><b>F. VERIFICATION OF COVERAGE</b></p> <p>Contractor shall furnish the Agency with certificates of insurance affecting coverage required by this clause. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates are to be received and approved by the Agency before work commences. The Agency reserves the right to require complete, certified copies of all required insurance policies, at any time.</p> <p><b>G. SUBCONTRACTORS</b></p> <p>All coverage for subcontractors shall be subject to all of the requirements stated herein. It is the responsibility of the Contractor to make sure that all subcontractors have adequate insurance coverage.</p>		

INFORMATION TO BIDDERS  
 1. BIDDING IS OPEN TO ALL QUALIFIED BIDDERS  
 2. BIDDERS MUST BE REGISTERED WITH THE STATE OF LOUISIANA  
 3. BIDDERS MUST BE LICENSED BY THE STATE OF LOUISIANA  
 4. BIDDERS MUST BE A MEMBER OF THE NATIONAL ASSOCIATION OF BIDDERS  
 5. BIDDERS MUST BE A MEMBER OF THE INTERNATIONAL ASSOCIATION OF BIDDERS  
 6. BIDDERS MUST BE A MEMBER OF THE AMERICAN SOCIETY OF BIDDERS  
 7. BIDDERS MUST BE A MEMBER OF THE INTERNATIONAL FEDERATION OF BIDDERS  
 8. BIDDERS MUST BE A MEMBER OF THE INTERNATIONAL ASSOCIATION OF BIDDERS  
 9. BIDDERS MUST BE A MEMBER OF THE INTERNATIONAL ASSOCIATION OF BIDDERS  
 10. BIDDERS MUST BE A MEMBER OF THE INTERNATIONAL ASSOCIATION OF BIDDERS

PRICE SHEET		Page 1 of 14			
NUMBER : 000689		BIDDER:			
OPEN DATE : 09/14/2005		TIME: 11:00 AM			
UNLESS SPECIFIED ELSEWHERE SHIP TO:					
Line No.	Description	Quantity	UOM	Unit Price	Extended Amount
1	Remanufactured Rheometer ARES with Forced Convection Oven (FCO): A versatile research-grade rheometer for characterizing a broad spectrum of medium to high viscosity fluids, polymer melts, and solids. Remanufactured rheometer system is provided in  Specify brand, model bid(if applicable)	1.00	EA		
2	ARES and RSA III Waveform and Fast Sampling Option. Allows for real-time display of waveform during oscillation experiments, oscilloscope software utility, and fast sampling for data rates up to 100 dat points per second.  Specify brand, model bid(if applicable)	1.00	EA		
3	ARES Photo-Curing Option: Accessory for rheological characterization of UV curable materials. Includes upper tool with removable 20 mm quartz plate, lower disposable tool, with 20mm stainless steel plate (for ambient operation), light source  Specify brand, model bid(if applicable)	1.00	EA		

## INSTALLATION TO BID

PRICE SHEET		Page 2 of 14				
NUMBER : 000689		BIDDER:				
OPEN DATE : 09/14/2005		TIME: 11:00 AM				
UNLESS SPECIFIED ELSEWHERE SHIP TO:						
Line No.	Description	Quantity	UOM	Unit Price	Extended Amount	
4	Package of 10 disposable 20 mm diameter acrylic plates for use with ARES-UV Curing Option and Photo-curing Option upper plate fixture. Note: Not for use with standard disposable plate fixture. PART# 403064.001  Specify brand, model bid(if applicable)	1.00	EA			
5	Package of 10 disposable 20 mm aluminum plates for ARES disposable plate fixture. Note: For use with ARES-UV Curing and Photo-curing Option upper quartz plate and fixture. PART# 403065.901  Specify brand, model bid(if applicable)	1.00	EA			
6	Installation & Training: Installation will be provided according to ISO 9000 procedure by one of our highly trained Service Engineers (average experience level of our field Service Engineers is over 15 years). The ISO 9000 procedure insures.  Specify brand, model bid(if applicable)	1.00	EA			

INFORMATION TO BID

PRICE SHEET		Page 3 of 14			
NUMBER : 000689		BIDDER:			
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UNLESS SPECIFIED ELSEWHERE SHIP TO:					
Line No.	Description	Quantity	UOM	Unit Price	Extended Amount
7	Air Dryer Membrane type. <input type="checkbox"/> PART# 700.02657.2  Specify brand, model bid(if applicable) _____	1.00	EA		
8	TA Orchestrator is a 32 bit instrument control and data analysis <input type="checkbox"/> software for ARES, ARES-LS1, ARES-LS2, ARES-RDA, and <input type="checkbox"/> ARES-RFS Rheometric Series Rheometers and RSA III Q-Series <input type="checkbox"/> Dynamic Mechanical Analyzer. TA Orchestrator includes both  Specify brand, model bid(if applicable) _____	1.00	EA		
9	SHIPPING CHARGES  Specify brand, model bid(if applicable) _____	1.00	EA		
10	INSTALLATION FEE  Specify brand, model bid(if applicable) _____	1.00	EA		

